

Table 2 Characteristics of investigated gene loci, 2-Mbp windows

	β -actin	Albumin	myb	lys	β -globin	CD11b	oct3/4	BWS	mpo
Dist. to surface ES cells [μ m]	1.3	0.8	1.7	1.4	0.7	1.7	1.7	1.5	1
Dist. to surface Macrophages [μ m]	1.04	0.62	1.2	0.8	0.8	1.4	1.3		1
Genes/Mbp	25.6	13	12	17.5	69.5	38	73	16.5	19.5
CpG islands/ Mbp	181.1	60	90	194	44.5	153.5	197.5	66.5	144.9
GC content	48.31	40.60	42.41	44.18	39.13	45.89	48.12	47.81	45.78
SINEs:	21.36	6.05	7.5	12.08	3.54	16.65	14.13	8.82	20.16
Alu/B1	7.19	2.06	2.88	4.09	1.42	6.78	5.99	2.81	8.29
B2-B4	13.28	3.35	3.94	7.01	1.91	8.89	7.78	5.54	10.41
IDs	0.57	0.07	0.23	0.28	0.05	0.29	0.18	0.15	0.47
MIRs	0.31	0.57	0.45	0.68	0.15	0.69	0.18	0.31	1
LINEs:	3.31	17.36	9.47	6.18	33.13	7.98	5.69	7.16	3.66
LINE1	3.1	16.82	9.02	5.31	33.03	7.49	5.47	7	3.04
LINE2	0.19	0.49	0.42	0.83	0.08	0.42	0.19	0.14	0.5
L3/CR1	0.01	0.04	0.03	0.02	0.01	0.04	0.02	0.02	0.09
LTR elements:	11.11	8.36	9.11	12.51	10.04	15.17	16.73	11.49	7.11
MaLRs	4.51	3.8	3.55	5.92	1.95	4.57	3.05	4.63	2.97
ERVL	1.5	0.65	0.91	1.62	1.17	2.16	2.01	1.46	0.74
ERV_classI	0.99	0.41	0.55	0.97	1.37	0.8	3.02	0.54	1.04
ERV_classII	4.11	3.48	4.07	4	5.56	7.64	8.64	4.87	2.35

The first two lines show the average mean distance of the respective locus to the nuclear surface in micrometer in ES cells and macrophages, respectively. The two following lines give genes per megabase pair and CpG islands per megabase pair, factoring in that due to gaps in the current genome built, for the β -actin and mpo loci, only 1.8 Mbp of sequence are available in this region (see Supplemental Fig. 3). All subsequent lines give the percentage by which the sequence in the given window is composed of the respective element.